

PAINT SPRAY PARTICLE TRAJECTORY ANALYSIS METHOD AND SYSTEM**ABSTRACT OF THE DISCLOSURE**

5 A system and method of analyzing paint spray
particle trajectory on a vehicle with a computer aided design
(CAD) model representative of the vehicle. The method
includes the steps of preparing a CAD model of a desired
portion of the vehicle and placing a paint spray gun at a
10 desired location with respect to the desired portion of the
vehicle. The method also includes the steps of specifying a
set of particle information describing particles to be sprayed
from the paint spray gun and computing a trajectory for a
particle stream emanating from the paint spray gun. The method
15 further includes the steps of displaying the trajectory
relative to the desired portion of the vehicle on a display to
permit visual observation thereof and relocating the paint
spray gun if necessary to achieve a desired trajectory.

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